

Thomas M Schmidt

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

24,743
citations

56
h-index

118
g-index

118
ext. papers

29,732
ext. citations

10.5
avg, IF

8
L-index

#	Paper	IF	Citations
110	Conceptual Exchanges for Understanding Free-Living and Host-Associated Microbiomes.. <i>MSystems</i> , 2022 , e0137421	7.6	0
109	Diverse events have transferred genes for edible seaweed digestion from marine to human gut bacteria.. <i>Cell Host and Microbe</i> , 2022 ,	23.4	3
108	Mechanistic insights into consumption of the food additive xanthan gum by the human gut microbiota.. <i>Nature Microbiology</i> , 2022 , 7, 556-569	26.6	3
107	Genomes Assembled from Metagenomes Suggest Genetic Drivers of Differential Response to Acarbose Treatment in Mice. <i>MSphere</i> , 2021 , e0085121	5	5
106	Demonstration of a compact x-ray free-electron laser using the optical klystron effect. <i>Applied Physics Letters</i> , 2021 , 119, 151102	3.4	1
105	Targeting the Gut Microbiome to Mitigate Immunotherapy-Induced Colitis in Cancer. <i>Trends in Cancer</i> , 2021 , 7, 583-593	12.5	4
104	Analysis of the first magnetic results of the PSI APPLE X undulators in elliptical polarisation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 987, 164741	1.2	2
103	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. <i>Nature Photonics</i> , 2020 , 14, 748-754	33.9	38
102	A synthesis of bacterial and archaeal phenotypic trait data. <i>Scientific Data</i> , 2020 , 7, 170	8.2	20
101	The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. <i>Trends in Cancer</i> , 2020 , 6, 192-204	12.5	79
100	The emergence of microbiome centres. <i>Nature Microbiology</i> , 2020 , 5, 2-3	26.6	7
99	Lung and gut microbiota are altered by hyperoxia and contribute to oxygen-induced lung injury in mice. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	31
98	Dynamics of Human Gut Microbiota and Short-Chain Fatty Acids in Response to Dietary Interventions with Three Fermentable Fibers. <i>MBio</i> , 2019 , 10,	7.8	280
97	Changes in the gut microbiome and fermentation products concurrent with enhanced longevity in acarbose-treated mice. <i>BMC Microbiology</i> , 2019 , 19, 130	4.5	98
96	The SwissFEL soft X-ray free-electron laser beamline: Athos. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1073-1084	2.4	21
95	Rational Modification of Intestinal Microbiome and Metabolites after Allogeneic Hematopoietic Stem Cell Transplantation with Resistant Starch: A Pilot Study. <i>Blood</i> , 2019 , 134, 3276-3276	2.2	
94	Butyrogenic bacteria after acute graft-versus-host disease (GVHD) are associated with the development of steroid-refractory GVHD. <i>Blood Advances</i> , 2019 , 3, 2866-2869	7.8	21

93	Microfluidic Sensors with Impregnated Fluorophores for Simultaneous Imaging of Spatial Structure and Chemical Oxygen Gradients. <i>ACS Sensors</i> , 2019 , 4, 317-325	9.2	4
92	Effects of Atypical Antipsychotic Treatment and Resistant Starch Supplementation on Gut Microbiome Composition in a Cohort of Patients with Bipolar Disorder or Schizophrenia. <i>Pharmacotherapy</i> , 2019 , 39, 161-170	5.8	51
91	Biomass and biofuel crop effects on biodiversity and ecosystem services in the North Central US. <i>Biomass and Bioenergy</i> , 2018 , 114, 18-29	5.3	50
90	Bacterial Dissemination to the Brain in Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 747-756	10.2	50
89	Neonatal acquisition of species protects against colonization by bacterial pathogens. <i>Science</i> , 2017 , 356, 315-319	33.3	122
88	Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium. <i>ELife</i> , 2017 , 6,	8.9	97
87	SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 720	2.6	177
86	Author response: Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium 2017 ,		5
85	Undulator beamline optimization with integrated chicanes for X-ray free-electron-laser facilities. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 861-8	2.4	12
84	Exploiting rRNA operon copy number to investigate bacterial reproductive strategies. <i>Nature Microbiology</i> , 2016 , 1, 16160	26.6	183
83	Variable responses of human microbiomes to dietary supplementation with resistant starch. <i>Microbiome</i> , 2016 , 4, 33	16.6	181
82	Gut microbiome-derived metabolites modulate intestinal epithelial cell damage and mitigate graft-versus-host disease. <i>Nature Immunology</i> , 2016 , 17, 505-513	19.1	366
81	Age-Related Variation in the Scent Pouch Bacterial Communities of Striped Hyenas (Hyaena hyaena) 2016 , 87-103		5
80	Vertebrate Hosts as Islands: Dynamics of Selection, Immigration, Loss, Persistence, and Potential Function of Bacteria on Salamander Skin. <i>Frontiers in Microbiology</i> , 2016 , 7, 333	5.7	48
79	The physiology and ecological implications of efficient growth. <i>ISME Journal</i> , 2015 , 9, 1481-7	11.9	88
78	The daily dynamics of cystic fibrosis airway microbiota during clinical stability and at exacerbation. <i>Microbiome</i> , 2015 , 3, 12	16.6	98
77	Multicenter Comparison of Lung and Oral Microbiomes of HIV-infected and HIV-uninfected Individuals. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 192, 1335-44	10.2	97
76	rrnDB: improved tools for interpreting rRNA gene abundance in bacteria and archaea and a new foundation for future development. <i>Nucleic Acids Research</i> , 2015 , 43, D593-8	20.1	466

75	Analysis of the upper respiratory tract microbiotas as the source of the lung and gastric microbiotas in healthy individuals. <i>MBio</i> , 2015 , 6, e00037	7.8	429
74	Application of a neutral community model to assess structuring of the human lung microbiome. <i>MBio</i> , 2015 , 6,	7.8	237
73	Bacterial growth efficiency varies in soils under different land management practices. <i>Soil Biology and Biochemistry</i> , 2014 , 69, 282-290	7.5	49
72	Bacterial communities in Malagasy soils with differing levels of disturbance affecting botanical diversity. <i>PLoS ONE</i> , 2014 , 9, e85097	3.7	6
71	Perennial grasslands enhance biodiversity and multiple ecosystem services in bioenergy landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1652-7	11.5	278
70	Farming for Ecosystem Services: An Ecological Approach to Production Agriculture. <i>BioScience</i> , 2014 , 64, 404-415	5.7	139
69	Multiphasic analysis of the temporal development of the distal gut microbiota in patients following ileal pouch anal anastomosis. <i>Microbiome</i> , 2013 , 1, 9	16.6	29
68	A gene-targeted approach to investigate the intestinal butyrate-producing bacterial community. <i>Microbiome</i> , 2013 , 1, 8	16.6	94
67	Functional gene differences in soil microbial communities from conventional, low-input, and organic farmlands. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 1284-92	4.8	73
66	Shallow breathing: bacterial life at low O ₂ . <i>Nature Reviews Microbiology</i> , 2013 , 11, 205-12	22.2	130
65	Comparison of the respiratory microbiome in healthy nonsmokers and smokers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 1067-75	10.2	501
64	Development of an ecophysiological model for <i>Diplosphaera colotermitum</i> TAV2, a termite hindgut <i>Verrucomicrobium</i> . <i>ISME Journal</i> , 2013 , 7, 1803-13	11.9	15
63	Symbiotic bacteria appear to mediate hyena social odors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19832-7	11.5	144
62	Structure, function and diversity of the healthy human microbiome. <i>Nature</i> , 2012 , 486, 207-14	50.4	6938
61	Evidence for a bacterial mechanism for group-specific social odors among hyenas. <i>Scientific Reports</i> , 2012 , 2, 615	4.9	88
60	A framework for human microbiome research. <i>Nature</i> , 2012 , 486, 215-21	50.4	1722
59	Genomic and physiological characterization of the <i>Verrucomicrobia</i> isolate <i>Geminisphaera colotermitum</i> gen. nov., sp. nov., reveals microaerophily and nitrogen fixation genes. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 1544-55	4.8	82
58	Fundamentals of microbial community resistance and resilience. <i>Frontiers in Microbiology</i> , 2012 , 3, 417	5.7	759

57	Bacteria Battling for Survival 2012 , 59-64		1
56	Studying the Enteric Microbiome in Inflammatory Bowel Diseases: Getting through the Growing Pains and Moving Forward. <i>Frontiers in Microbiology</i> , 2011 , 2, 144	5.7	19
55	Agriculture's impact on microbial diversity and associated fluxes of carbon dioxide and methane. <i>ISME Journal</i> , 2011 , 5, 1683-91	11.9	111
54	Land-use history has a stronger impact on soil microbial community composition than aboveground vegetation and soil properties. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2184-2193	7.5	276
53	Influence of plant polymers on the distribution and cultivation of bacteria in the phylum Acidobacteria. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 586-96	4.8	158
52	Identifying and removing artificial replicates from 454 pyrosequencing data. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5409	1.2	13
51	rrnDB: documenting the number of rRNA and tRNA genes in bacteria and archaea. <i>Nucleic Acids Research</i> , 2009 , 37, D489-93	20.1	333
50	Systematic artifacts in metagenomes from complex microbial communities. <i>ISME Journal</i> , 2009 , 3, 1314-1319	7.9	363
49	Reproducible community dynamics of the gastrointestinal microbiota following antibiotic perturbation. <i>Infection and Immunity</i> , 2009 , 77, 2367-75	3.7	418
48	Physiological and Ecological Adaptations of Slow-Growing, Heterotrophic Microbes and Consequences for Cultivation. <i>Microbiology Monographs</i> , 2009 , 257-276	0.8	3
47	A systems approach to model natural variation in reactive properties of bacterial ribosomes. <i>BMC Systems Biology</i> , 2008 , 2, 62	3.5	5
46	Phylogenetic characterization and prevalence of "Spirobacillus cienkowskii," a red-pigmented, spiral-shaped bacterial pathogen of freshwater Daphnia species. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 1575-82	4.8	20
45	Decreased diversity of the fecal Microbiome in recurrent Clostridium difficile-associated diarrhea. <i>Journal of Infectious Diseases</i> , 2008 , 197, 435-8	7	764
44	Overview of the gastrointestinal microbiota. <i>Advances in Experimental Medicine and Biology</i> , 2008 , 635, 29-40	3.6	27
43	The effect of natural selection on the performance of maximum parsimony. <i>BMC Evolutionary Biology</i> , 2007 , 7, 94	3	4
42	Isolation and characterization of soil bacteria that define Terriglobus gen. nov., in the phylum Acidobacteria. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 2708-17	4.8	259
41	Performance of the translational apparatus varies with the ecological strategies of bacteria. <i>Journal of Bacteriology</i> , 2007 , 189, 3237-45	3.5	64
40	The maturing of microbial ecology. <i>International Microbiology</i> , 2006 , 9, 217-23	3	23

39	Differences in codon bias cannot explain differences in translational power among microbes. <i>BMC Bioinformatics</i> , 2005 , 6, 3	3.6	9
38	Colonization of the cecal mucosa by <i>Helicobacter hepaticus</i> impacts the diversity of the indigenous microbiota. <i>Infection and Immunity</i> , 2005 , 73, 6952-61	3.7	71
37	Antibiotic-associated diarrhea accompanied by large-scale alterations in the composition of the fecal microbiota. <i>Journal of Clinical Microbiology</i> , 2004 , 42, 1203-6	9.7	241
36	Life history implications of rRNA gene copy number in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2004 , 70, 6670-7	4.8	115
35	Changes in <i>Synechococcus</i> population size and cellular ribosomal RNA content in response to predation and nutrient limitation. <i>Microbial Ecology</i> , 2004 , 48, 1-9	4.4	1
34	New strategies for cultivation and detection of previously uncultured microbes. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4748-55	4.8	320
33	Rates and consequences of recombination between rRNA operons. <i>Journal of Bacteriology</i> , 2003 , 185, 966-72	3.5	63
32	Role of <i>Rhodobacter</i> sp. strain PS9, a purple non-sulfur photosynthetic bacterium isolated from an anaerobic swine waste lagoon, in odor remediation. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1710-20	4.8	41
31	Archaeal nucleic acids in picoplankton from great lakes on three continents. <i>Microbial Ecology</i> , 2003 , 46, 238-48	4.4	82
30	Diversity and dynamics of microbial communities in soils from agro-ecosystems. <i>Environmental Microbiology</i> , 2003 , 5, 441-52	5.2	234
29	The Ribosomal Database Project (RDP-II): previewing a new autoaligner that allows regular updates and the new prokaryotic taxonomy. <i>Nucleic Acids Research</i> , 2003 , 31, 442-3	20.1	1089
28	The Effect of Natural Selection on Phylogeny Reconstruction Algorithms. <i>Lecture Notes in Computer Science</i> , 2003 , 13-24	0.9	3
27	Environmental factors influencing the distribution of rRNA from Verrucomicrobia in soil. <i>FEMS Microbiology Ecology</i> , 2001 , 35, 105-112	4.3	93
26	rrndb: the Ribosomal RNA Operon Copy Number Database. <i>Nucleic Acids Research</i> , 2001 , 29, 181-4	20.1	775
25	rRNA operon copy number reflects ecological strategies of bacteria. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1328-33	4.8	757
24	A new version of the RDP (Ribosomal Database Project). <i>Nucleic Acids Research</i> , 1999 , 27, 171-3	20.1	760
23	Acetogenesis from H ₂ plus CO ₂ by spirochetes from termite guts. <i>Science</i> , 1999 , 283, 686-9	33.3	251
22	Application of Traditional and Phylogenetically Based Comparative Methods to Test for a Trade-off in Bacterial Growth Rate at Low versus High Substrate Concentration. <i>Microbial Ecology</i> , 1999 , 38, 191-200	4.4	9

21	Evolution of competitive fitness in experimental populations of <i>E. coli</i> : what makes one genotype a better competitor than another?. <i>Antonie Van Leeuwenhoek</i> , 1998 , 73, 35-47	2.1	116
20	Nucleic acid content of <i>synechococcus</i> spp. during growth in continuous light and light/dark cycles. <i>Archives of Microbiology</i> , 1998 , 170, 201-7	3	35
19	Phylogenetic analysis of nonthermophilic members of the kingdom crenarchaeota and their diversity and abundance in soils. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 4333-9	4.8	170
18	A small, dilute-cytoplasm, high-affinity, novel bacterium isolated by extinction culture and having kinetic constants compatible with growth at ambient concentrations of dissolved nutrients in seawater. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 4467-76	4.8	79
17	Growth rate-dependent accumulation of RNA from plasmid-borne rRNA operons in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1998 , 180, 1970-2	3.5	26
16	Multiplicity of Ribosomal RNA Operons in Prokaryotic Genomes 1998 , 221-229		11
15	Distribution of the <i>tfdA</i> Gene in Soil Bacteria That Do Not Degrade 2,4-Dichlorophenoxyacetic Acid (2,4-D). <i>Microbial Ecology</i> , 1997 , 34, 90-6	4.4	37
14	Phylogenetic identification of uncultured pathogens using ribosomal RNA sequences. <i>Methods in Enzymology</i> , 1994 , 235, 205-22	1.7	56
13	Identification of the uncultured bacillus of Whipple's disease. <i>New England Journal of Medicine</i> , 1992 , 327, 293-301	59.2	989
12	Phylogenetic relationships among the agent of bacillary angiomatosis, <i>Bartonella bacilliformis</i> , and other alpha-proteobacteria. <i>Molecular Microbiology</i> , 1992 , 6, 1801-7	4.1	88
11	The first cellular bioenergetic process: primitive generation of a proton-motive force. <i>Journal of Molecular Evolution</i> , 1991 , 33, 297-304	3.1	41
10	Spectral characterization of c-type cytochromes purified from <i>Beggiatoa alba</i> . <i>Archives of Microbiology</i> , 1990 , 154, 453-458	3	24
9	The agent of bacillary angiomatosis. An approach to the identification of uncultured pathogens. <i>New England Journal of Medicine</i> , 1990 , 323, 1573-80	59.2	799
8	Electron transport and respiration in <i>Beggiatoa</i> and <i>Vitreoscilla</i> . <i>Archives of Microbiology</i> , 1986 , 145, 71-75	3	10
7	Protein synthesis by <i>Beggiatoa alba</i> B18LD in the presence and absence of sulfide. <i>Archives of Microbiology</i> , 1986 , 144, 158-162	3	15
6	Environmental factors influencing the distribution of rRNA from Verrucomicrobia in soil		4
5	Muribaculaceae genomes assembled from metagenomes suggest genetic drivers of differential response to acarbose treatment in mice		1
4	Changes in the gut microbiota and fermentation products associated with enhanced longevity in acarbose-treated mice		2

3	Dynamics of human gut microbiota and short-chain fatty acids in response to dietary interventions with three fermentable fibers	3
2	Measurement of rRNA Abundance by Hybridization with Oligodeoxynucleotide Probes897-908	
1	Methods for Characterizing Microbial Communities Associated with the Human Body51-74	5